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Publication Date
1994-11-30

Data Availability
The data associated with this publication are in the supplemental files.

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LETTER REPORT OF AN X-RAY FLUORESCENCE ANALYSIS OF
OBSIDIAN ARTIFACTS FROM CA-SDI-759, SAN DIEGO COUNTY,
CALIFORNIA

Joan C. Brown            30 November 1994
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I have taken the liberty of submitting a letter report given the small sample size submitted for
analysis.  Methodology and instrument setting data are available in Shackley (1991, 1992,
1994a).

As you can see in Table 1, the single obsidian artifact is derived from obsidian procured from the
San Felipe source in northern Baja California (Banks 1971; Bouey 1984; Douglas 1981).  Source
assignment was made based on the data library at Berkeley (see also Shackley 1992b).  Obsidian
derived from this source does occur in Late Prehistoric contexts in southern and central San
Diego County, but this is the first occurrence to my knowledge in northern San Diego County.

Table 1.  X-ray fluorescence concentrations for archaeological samples.  All measurements are in
parts per million (ppm).

<table>
<thead>
<tr>
<th>SAMPLE</th>
<th>Ti</th>
<th>Mn</th>
<th>Fe</th>
<th>Rb</th>
<th>Sr</th>
<th>Y</th>
<th>Zr</th>
<th>Nb</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>104</td>
<td>1314.38</td>
<td>110.53</td>
<td>101.35</td>
<td>35.82</td>
<td>31.32</td>
<td>93.74</td>
<td>0</td>
<td>San Felipe, B.C.</td>
<td></td>
</tr>
</tbody>
</table>

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Sincerely,

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